

ABSTRACT OF THE DISCLOSURE

There is provided an organic light emitting device to break through the limit of 25% of internal quantum efficiency and 5% of external quantum efficiency while using singlet luminescence.

Specifically provided is an organic light emitting device comprising an anode, an organic layer and a cathode, wherein light-emitting molecules present in an emissive layer which is at least a part of the organic layer and responsible for luminescence by charge injection effect transition from a triplet excited state having an energy level higher than a lowest excited singlet state to a singlet excited state and effect fluorescent emission in a fluorescence quantum yield of 60% or more in the same state as existing in the emissive layer, and wherein the emissive layer comprises the light-emitting molecules as a main component in an amount of 50 wt% or more, or is doped with the light-emitting molecules at a high concentration of 7 wt% or more, or is a layer in which the light-emitting molecules are excitable by direct trapping of electrons and holes has enabled to break through the limit of 25% of internal quantum efficiency and 5% of external quantum efficiency while using singlet luminescence.